WHAT IS CLAIMED IS:

1. An air valve structure of a pneumatic motor of a screwdriver, a spindle of a pneumatic motor being installed between a bearing top seat and a bearing bottom seat; each of the bearing top seat and the bearing bottom seat having a respective air inlet for driving the pneumatic motor to rotate; wherein

a spindle of the pneumatic motor is formed with a bi-directional rod groove; one end of the rod groove is communicated to an air inlet of the pneumatic motor and another end thereof is formed with a valve gate to be communicated to an air supply in the screwdriver so as to form an air path to supply air to drive the pneumatic motor,

a piston rod for beating a screw nail is mounted in the rod groove; an air stop washer is formed on the piston rod for controlling opening and closing of the valve gate with the movement of the screw nail as the screw nail is beaten so as to control the opening and closing of the valve gate, and thus rotation of the pneumatic motor is controlled.

2. The air valve structure of a pneumatic motor of a screwdriver as claimed in claim 1, wherein the air inlet of the pneumatic motor has an annular washer at a top of the bearing top seat; the annular washer has a groove which is extended from an inner hole of the annular washer to outsides so as to communicated with rod groove and the air inlet of the pneumatic motor.

3. The air valve of a pneumatic motor of a screwdriver and an air path of the air valve as claimed in claim 1, wherein the valve gate has a neck-like shape and has a smaller inner diameter.